Supplemental Table 1. Correlations of positional variance between three pairs of spatial dimensions (X-Y, Y-Z, and X-Z) and within differentiation code categories (4, 6, and 7 level).

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| --- | --- | --- | --- |
| **4 level** | **X-Y** | **Y-Z** | **X-Z** |
| AB (0) | 0.34 | -0.46 | -0.43 |
| P1 (1) | 0.44 | 0.56 | 0.83 |
| **6 level** | **X-Y** | **Y-Z** | **X-Z** |
| ABpl (0) | -0.71 | -0.34 | -0.02 |
| ABpr (1) | -0.64 | 0.34 | 0.20 |
| ABar (2) | 0.47 | 0.87 | 0.39 |
| ABal (3) | -0.55 | -0.43 | 0.48 |
| MS (4) | 0.39 | -0.84 | -0.37 |
| E (5) | -0.11 | -0.63 | 0.58 |
| C (6) | -0.27 | -0.31 | 0.26 |
| P3 (7) | 0.15 | -0.44 | 0.68 |
| **7 level** | **X-Y** | **Y-Z** | **X-Z** |
| ABpl (0) | -0.56 | -0.03 | -0.24 |
| ABpr (1) | -0.67 | 0.28 | 0.14 |
| ABar (2) | 0.36 | 0.72 | 0.37 |
| ABal (3) | -0.25 | -0.37 | 0.21 |
| MS (4) | 0.22 | -0.68 | -0.31 |
| E (5) | -0.11 | -0.33 | 0.56 |
| C (6) | -0.27 | 0.06 | -0.14 |
| P3 (7) | -0.17 | -0.29 | 0.60 |